

<p style="text-align: center;">O I P E U. S. PATENT OFFICE</p> <p>MAR 08 2004</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p>				Complete if Known		
				Application Number		10/603,094
				Filing Date		June 25, 2003
				First Named Inventor		Don J. DIAMOND
				Group Art Unit		1645 1648
				Examiner Name		To Be Assigned Louise Humphrey
Sheet	1	of	8	Attorney Docket Number	1954-410	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document		Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)			
LH	A.	6,156,317		Diamond et al.		12-05-2000
LH	B.	6,074,645		Diamond et al.		06-13-2000
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office ³ Code	Number ⁴	Kind ⁵ (if known)		
LH	C.	WO	00/75180	A2	Florian Kern	12-14-2000
	D.	WO	94/00150	A1	City of Hope	01-06-1994
	E.	WO	97/40165	A1	The Wistar Institute of Anatomy and Biology	10-30-1997
	F.	WO	98/26074	A1	Institut National De La Sante et de La Recherche Medicale	06-18-1998
↓	G.	WO	99/19349	A1	City of Hope	04-22-1999
Examiner Signature	/Louise Humphrey/ (09/13/2006)			Date Considered		

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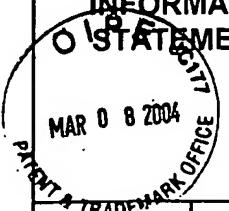
¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code.

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>O 8 2004</i> <i>MAR 0 8 2004</i> <i>PATENTS & TRADEMARK OFFICE</i> <i>Sheet 2 of 8</i>				<i>Complete if Known</i>	
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LH	H.	Alexander, Jeff, et al., "Development of High Potency Universal DR-Restricted Helper Epitopes by Modification of High Affinity DR-Blocking Peptides," <u>Immunity</u> 1:751-761, December 1994.			
	I.	Alexander, Jeff, et al., "Derivation of HLA-A11/K ^b Transgenic Mice: Functional CTL Repertoire and Recognition of Human A11-Restricted Epitopes," <u>The Journal of Immunology</u> 159:4753-4761, 1997.			
	J.	Altman, John D., et al., "Phenotypic Analysis of Antigen-Specific T Lymphocytes," <u>Science</u> 274:94-96, October 4, 1996.			
	K.	Appay, Victor, et al., "HIV-specific CD8 ⁺ T Cells Produce Antiviral Cytokines but are Impaired in Cytolytic Function," <u>J. Exp. Med.</u> 192(1):63-75, July 3, 2000.			
	L.	Banchereau, Jacques, et al., "Immune and Clinical Responses in Patients with Metastatic Melanoma to CD34 ⁺ Progenitor-derived Dendritic Cell Vaccine," <u>Cancer Research</u> 61:6451-6458, September 1, 2001.			
	M.	Belyakov, Igor M., et al., "Mucosal AIDS vaccine reduces disease and viral load in gut reservoir and blood after mucosal infection of macaques," <u>Nature Medicine</u> 7(12):1320-1326, December 2001.			
	N.	BenMohamed L., et al., "Induction of CTL Response by a Minimal Epitope Vaccine in HLA A*0201/DR1 Transgenic Mice: Dependence on HLA Class II Restricted T _H Response," <u>Human Immunology</u> , 61:764-779, 2000.			
	O.	BenMohamed, Lbachir, et al., "Intranasal administration of a synthetic lipopeptide without adjuvant induces systemic immune responses," <u>Immunology</u> 106:113-121, 2002.			
	P.	Berger, Carolina, et al., "Nonmyeloablative Immunosuppressive Regimen Prolongs In Vivo Persistence of Gene-Modified Autologous T Cells in a Nonhuman Primate Model," <u>Journal of Virology</u> 75(2):799-808, January 2001.			
	Q.	Bernhard, Eric et al., "Cytotoxic T Lymphocytes from HLA-A2 Transgenic Mice Specific for HLA-A2 Expressed on Human Cells," <u>J. Exp. Med.</u> 168:1157-1162, September 1988.			
	R.	Borysiewicz, Leszek, et al., "Human Cytomegalovirus-Specific Cytotoxic T Lymphocytes: Requirements for <i>in Vitro</i> Generation and Specificity," <u>Eur. J. Immunol.</u> 13:804-809, 1983.			
	S.	Boyer, Jean D., et al., "Vaccination of Seronegative Volunteers with a Human Immunodeficiency Virus Type 1 env/rev DNA Vaccine Induces Antigen-Specific Proliferation and Lymphocyte Production of β -Chemokines," <u>The Journal of Infectious Diseases</u> 181:476-83, 2000.			
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LH	T.	Chu, Rose S., et al., "CpG Oligodeoxynucleotides Act as Adjuvants that Switch on T Helper 1 (Th1) Immunity," <u>J. Exp. Med.</u> 186(10):1623-1631, November 17, 1997.					
	U.	Cwynarski, Kate, et al., "Direct Visualization of Cytomegalovirus-Specific T-Cell Reconstitution after Allogeneic Stem Cell Transplantation," <u>Blood</u> 97(5):1232-1240, March 1, 2001.					
	V.	Davis, Heather L., et al., "CpG DNA Is a Potent Enhancer of Specific Immunity in Mice Immunized with Recombinant Hepatitis B Surface Antigen," <u>The Journal of Immunology</u> 160:870-876, 1998.					
	W.	Del Val, Margarita, et al., "Efficient Processing of an Antigenic Sequence for Presentation by MHC Class I Molecules Depends on Its Neighboring Residues in the Protein," <u>Cell</u> 68:1145-1153, September 20, 1991.					
	X.	Del Val, Margarita, et al., "Protection Against Lethal Cytomegalovirus Infection by a Recombinant Vaccine Containing a Single Nonameric T-Cell Epitope," <u>Journal of Virology</u> 65(7):3641-3646, July 1991.					
	Y.	Deres, Karl, et al., " <i>In vivo</i> priming of a virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccines," <u>Nature</u> 342:561-564, November 30, 1989.					
	Z.	Diamond, Don J., et al., "Development of a Candidate HLA A*0201 Restricted Peptide Based Vaccine Against HCMV Infection," <u>Blood</u> 90(5):1751-1767, September 1, 1997.					
	AA.	Einsele, Hermann, et al., "Infusion of Cytomegalovirus (CMV)-Specific T Cells for the Treatment of CMV Infection Not Responding to Antiviral Chemotherapy," <u>Blood</u> 99(11):3916-3922, June 1, 2002.					
	BB.	Freytag, L.C., et al., "Bacterial Toxins as Mucosal Adjuvants," <u>Curr. Top. Microbiol. Immunol.</u> 236:215-236, 1999.					
	CC.	Gahéry-Ségard, Hanne, et al., "Multiepitopic B- and T-Cell Responses Induced in Humans by a Human Immunodeficiency Virus Type 1 Lipopeptide Vaccine," <u>Journal of Virology</u> 74(4):1694-1703, February 2000.					
	DD.	Gratama, Jan. W., et al., "Tetramer-based Quantification of Cytomegalovirus (CMV)-Specific CD8 ⁺ T Lymphocytes in T-Cell-Depleted Stem Grafts and after Transplantation May Identify Patients at Risk for Progressive CMV Infection," <u>Blood</u> 98(5):1358-1364, September 1, 2001.					
	EE.	Grefte, J.M., et al., "The Lower Matrix Protein pp65 is the Principal Viral Antigen Present in Peripheral Blood Leukocytes During an Active Cytomegalovirus Infection," <u>Journal of General Virology</u> 73:2923-2932, 1992.					
↓	FF.	Gyulai, Zsofia, et al., "Cytotoxic T Lymphocyte (CTL) Responses to Human Cytomegalovirus pp65, IE1-Exon4, gB, pp150, and pp28 in Healthy Individuals: Reevaluation of Prevalence of IE1-Specific CTLs," <u>The J. of Infectious Diseases</u> 181:1537-46, 2000.					
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LH	GG.	Hart, Mary Kate, et al., "Priming of Anti-Human Immunodeficiency Virus (HIV) CD8 ⁺ Cytotoxic T Cells in Vivo by Carrier-Free HIV Synthetic Peptides," <u>Proc. Natl. Acad. Sci USA</u> 88:9448-9452, November 1991.			
	HH.	Heathcote, Jenny, et al., "A Pilot Study of the CY-1899 T-Cell Vaccine in Subjects Chronically Infected with Hepatitis B Virus," <u>Hepatology</u> 30(2):531-536, August 1999.			
	II.	Hernández, Javier, et al., "The Use of HLA A2.1/p53 Peptide Tetramers to Visualize the Impact of Self Tolerance on the TCR Repertoire," <u>The Journal of Immunology</u> 164:596-602, 2000.			
	JJ.	Hioe, Catarina, et al., "Comparison of Adjuvant Formulations for Cytotoxic T Cell Induction Using Synthetic Peptides," <u>Vaccine</u> 14(5):412-418, 1996.			
	KK.	Horner, Anthony A., et al., "Immunostimulatory DNA-Based Vaccines Elicit Multifaceted Immune Responses Against HIV at Systemic and Mucosal Sites," <u>The Journal of Immunology</u> 167:1584-1591, 2001.			
	LL.	Ishioka, Glenn Y., et al. "Utilization of MHC Class I Transgenic Mice for Development of Minigen DNA Vaccines Encoding Multiple HLA-Restricted CTL Epitopes," <u>J. Immunology</u> 162:3915-3925, 1999.			
	MM.	Kern, Florian, et al., "Analysis of CD8 T Cell Reactivity to Cytomegalovirus Using Protein-Spanning Pools of Overlapping Pentadecapeptides," <u>Eur. J. Immunol.</u> 30:1676-1682, 2000.			
	NN.	Kern, Florian, et al., "Target Structures of the CD8 ⁺ -T-Cell Response to Human Cytomegalovirus: the 72 Kilodalton Major Immediate-Early Protein Revisited," <u>J. of Virology</u> 73(10):8179-8184, October 1999.			
	OO.	Klinman, D.M., et al., "CpG DNA Augments the Immunogenicity of Plasmid DNA Vaccines," <u>Curr. Top. Microbiol. Immunol.</u> 247:131-142, 2000.			
	PP.	Krieg, Arthur M., et al., "CpG Motifs in Bacterial DNA and Their Immune Effects," <u>Annu. Rev. Immunol.</u> 20:709-760, 2002.			
	QQ.	Krieg, Arthur M., et al., "CpG Motifs in Bacterial DNA Trigger Direct B-Cell Activation," <u>Nature</u> 374(6):546-549, April 6, 1995.			
↓	RR.	Krieg, Arthur M., et al., "Enhancing Vaccines with Immune Stimulatory CpG DNA," <u>Current Opinion in Molecular Therapeutics</u> 3(1):15-24, 2001.			
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LH	SS.	Krieg, Arthur M., et al., "Sequence Motifs in Adenoviral DNA Block Immune Activation by Stimulatory CpG Motifs," <u>Proc. Natl. Acad. Sci. USA</u> 95:12631-12636, October 1998.			
	TT.	La Rosa, Corinna, et al., "Enhanced Immune Activity of Cytotoxic T-Lymphocyte Epitope Analogs Derived from Positional Scanning Synthetic Combinatorial Libraries," <u>Blood</u> 97(6):1776-1786, March 15, 2001.			
	UU.	Li, Cheng-Rong, et al., "Recovery of HLA-Restricted Cytomegalovirus (CMV)-Specific T-Cell Responses After Allogeneic Bone Marrow Transplant: Correlation with CMV Disease and Effect of Ganciclovir Prophylaxis," <u>Blood</u> 83(7):1971-1979, 1994.			
	VV.	Limaye, Ajit P., et al., "High Incidence of Ganciclovir-Resistant Cytomegalovirus Infection among Lung Transplant Recipients Receiving Preemptive Therapy," <u>The Journal of Infectious Diseases</u> 185:20-7, 2002.			
	WW.	Lipford, G.B., et al. "Peptide Engineering Allows Cytotoxic T-cell Vaccination Against Human Papilloma Virus Tumour Antigen, E6," <u>Immunology</u> 84:298-303, 1995.			
	XX.	Lipford, Grayson B., et al., "CpG-containing synthetic oligonucleotides promote B and cytotoxic T cell responses to protein antigen: a new class of vaccine adjuvants," <u>Eur. J. Immunol.</u> 27:2340-2344, 1997.			
	YY.	Livingston, Brian D., et al. "Altered Helper T Lymphocyte Function Associated with Chronic Hepatitis B Virus Infection and its Role in Response to Therapeutic Vaccination in Humans," <u>J. Immunology</u> 162:3088-3095, 1999.			
	ZZ.	Livingston, Brian D., et al., "The Hepatitis B Virus-Specific CTL Responses Induced in Humans by Lipopeptide Vaccination Are Comparable to Those Elicited by Acute Viral Infection," <u>The Journal of Immunology</u> , 159:1383-1392, 1997.			
	AAA.	Longmate, Jeffrey, et al., "Population Coverage by HLA Class-I Restricted Cytotoxic T-Lymphocyte Epitopes," <u>Immunogenetics</u> 52:165-173, 2001.			
	BBB.	Ludewig, Burkhard, et al., "Dendritic Cells Efficiently Induce Protective Antiviral Immunity," <u>Journal of Virology</u> 72(5):3812-3818, May 1998.			
	CCC.	Martinon, Frederic, et al., "Immunization of Mice with Lipopeptides Bypasses the Prerequisite for Adjuvant: Immune Response of BALB/c Mice to Human Immunodeficiency Virus Envelope Glycoprotein," <u>The Journal of Immunology</u> 149(10):3416-3422, November 15, 1992.			
↓	DDD.	McCluskie, Michael J., et al., "Mucosal Immunization of Mice Using CpG DNA and/or Mutants of the Heat-Labile Enterotoxin of <i>Escherichia coli</i> as Adjuvants," <u>Vaccine</u> 19:3759-3768, 2001.			
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LH	EEE.	McLaughlin-Taylor, Elizabeth, et al., "Identification of the Major Late Human Cytomegalovirus Matrix Protein pp65 as a Target Antigen for CD8 ⁺ Virus-Specific Cytotoxic T Lymphocytes," <u>Journal of Medical Virology</u> 43:103-110, 1994.			
	FFF.	Millan, Cynthia L. Brazolot, et al., "CpG DNA Can Induce Strong Th1 Humoral and Cell-mediated Immune Response against Hepatitis B Surface Antigen in Young Mice," <u>Proc. Natl. Acad. Sci. USA</u> 95:15553-15558, December 1998.			
	GGG.	Moldoveanu, Zina, et al., "CpG DNA, a Novel Immune Enhancer for Systemic and Mucosal Immunization with Influenza Virus," <u>Vaccine</u> , 16(11/12):1216-1224, 1998			
	HHH.	Mora, Ana L., et al., "Controlled Lipidation and Encapsulation of Peptides as a Useful Approach to Mucosal Immunization," <u>The Journal of Immunology</u> 161:3616-3623, 1998.			
	III.	Morris, Cindy B., et al., "Effectiveness of Intranasal Immunization with HIV-gp160 and an HIV-1 Env CTL Epitope Peptide (E7) in Combination with the Mucosal Adjuvant LT (R192G)," <u>Vaccine</u> 18:1944-1951, 2000.			
	JJJ.	Newman, M.J., et al., "Induction of Cross-reactive Cytotoxic T-lymphocyte Responses Specific for HIV-1 gp120 Using Saponin Adjuvant (QS-21) Supplemented Subunit Vaccine Formulations," <u>Vaccine</u> 15(9):1001-1007, 1997.			
	KKK.	Nichols, W. Garrett, et al., "High Risk of Death Due to Bacterial and Fungal Infection among Cytomegalovirus (CMV)-Seronegative Recipients of Stem Cell Transplants from Seropositive Donors: Evidence for Indirect Effect of Primary CMV Infection," <u>The Journal of Infectious Diseases</u> 185:273-82, 2002.			
	LLL.	Pande, Hema, et al., "Human Cytomegalovirus Strain Towne pp65 Gene: Nucleotide Sequence and Expression in <i>Escherichia coli</i> ," <u>Virology</u> 182: 220-228, 1991.			
	MMM.	Partidos, C.D., et al., "CTL Responses Induced by a Single Immunization with Peptide Encapsulated in Biodegradable Microparticles," <u>Journal of Immunological Methods</u> 206:143-151, 1997.			
	NNN.	Parker, Kenneth C., et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," <u>Journal of Immunology</u> , 152:163-175, 1994.			
	OOO.	Rammensee, Hans-Georg, et al., "MHC Ligands and Peptide Motifs: First Listing," <u>Immunogenetics</u> , 41(4):178-228, 1995.			
▼	PPP.	Rammensee, Hans-Georg, et al., "Peptides Naturally Presented by MHC Class I Molecules," <u>Annu. Rev. Immunol.</u> 11:213-44, 1993.			
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LH	QQQ.	Rasmussen, L., "Immune Response to Human Cytomegalovirus Infection," <u>Current Topics in Microbiology and Immunology</u> 154:222-254 (1990).	
	RRR.	Reece, Jeannette, et al., "Mapping the Major Human T Helper Epitopes of Tetanus Toxin: the Emerging Picture," <u>J. Immunol.</u> 151(11):6175-6184, December 1, 1993.	
	SSS.	Retière, Christelle, et al., "Generation of Cytomegalovirus-Specific Human T-Lymphocyte Clones by Using Autologous B-Lymphoblastoid Cells with Stable Expression of pp65 or IE1 Proteins: a Tool to Study the Fine Specificity of the Antiviral Response," <u>J. of Virology</u> 74(9):3948-3952, May 2000.	
	TTT.	Riddell, Stanley, et al., "Class I MHC-Restricted Cytotoxic T Lymphocyte Recognition of Cells Infected with Human Cytomegalovirus does not Require Endogenous Viral Gene Expression," <u>J. Immunology</u> 146(8):2795-2804, April 15, 1991.	
	UUU.	Riddell, Stanley, et al., "Restoration of Viral Immunity in Immunodeficient Humans by the Adoptive Transfer of T Cell Clones," <u>Science</u> 257:238-241, 1992.	
	VVV.	Rock, Kenneth, et al., "Degradation of Cell Proteins and the Generation of MHC Class 1-Presented Peptides," <u>Annu. Rev. Immunol.</u> 17:739-779, 1999.	
	WWW	Rosloniec, Edward, et al., "An HLA-DR1 Transgene Confers Susceptibility to Collagen-induced Arthritis Elicited with Human Type II Collagen," <u>J. Exp. Med.</u> 185(6):1113- 1122, March 17, 1997.	
	XXX.	Sauzet, Jean-Pierre, et al., "Long-lasting anti-viral Cytotoxic T Lymphocytes Induced <i>In Vivo</i> with Chimeric-multirestricted Lipopeptides," <u>Vaccine</u> 13(14):1339-1345, 1995.	
	YYY.	Schild, Hansjörg, et al., "Efficiency of peptides and lipopeptides for <i>in vivo</i> priming of virus-specific cytotoxic T cells," <u>Eur. J. Immunol.</u> 21:2649-2654, 1991.	
	ZZZ.	Schulz, Manfred., et al., "Peptide-induced Antiviral Protection by Cytotoxic T Cells," <u>Proc. Natl. Acad. Sci. USA</u> 88:991-993, February 1991.	
	AAAA.	Seth, Aruna, et al., "Evaluation of a Lipopeptide Immunogen as a Therapeutic in HIV Type 1-seropositive Individuals," <u>AIDS Res. Hum. Retroviruses</u> 16(4):337-343, 2000.	
	BBBB.	Shirai, Mutsumori, et al., "Helper-cytotoxic T Lymphocyte (CTL) Determinant Linkage Required for Priming of Anti-HIV CD8 ⁺ CTL <i>in vivo</i> with Peptide Vaccine Constructs," <u>J. Immunol.</u> 152:549-556, 1994.	
	CCCC.	Stratton, Kathleen R., et al., <u>Vaccines for the 21st Century: A tool for Decisionmaking</u> . Bethesda, National Academy Press, 2001, pp. ix-xi.	
↓	DDDD.	Tighe, Helen, et al., "Conjugation of Protein to Immunostimulatory DNA Results in a Rapid, Long-lasting and Potent Induction of Cell-mediated and Humoral immunity," <u>Eur. J. Immunol.</u> 30:1939-1947, 2000.	
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LH	EEEE.	Tobery, Timothy et al., "Cutting Edge: Induction of Enhanced CTL-Dependent Protective Immunity in Vivo by N-End Rule Targeting of a Model Tumor Antigen," <u>The Journal of Immunology</u> 162:639-642, 1999.	
	FFFF.	Tobery and Siliciano, "Targeting of HIV-1 Antigens for Rapid Intracellular Degradation Enhances Cytotoxic T Lymphocyte (CTL) Recognition and the Induction of De Novo CTL Responses in vivo After Immunization," <u>J. Exp. Med.</u> 185(5):909-920, 1997.	
	GGGG.	Tsunoda, Ikuo, et al. "Lipopeptide Particles as the Immunologically Active Component of CTL Inducing Vaccines," <u>Vaccine</u> 17:675-685, 1999.	
	HHHH.	Ureta-Vidal, Abel, et al., "Phenotypical and Functional Characterization of the CD8 ⁺ T Cell Repertoire of HLA-A2.1 Transgenic, H-2K ^b nullD ^b null Double Knockout Mice," <u>J. Immunol.</u> 163:2555-2560, 1999.	
	IIII.	Varshavsky, Alexander, "The N-end Rule: Functions, Mysteries, Uses," <u>Proc. Natl. Acad. Sci. U.S.A.</u> 93:12142-12149, 1996.	
	JJJJ.	Villacres, Maria C., et al., "Human Immunodeficiency Virus-infected Patients Receiving Highly Active Antiretroviral Therapy Maintain Activated CD8+ T Cell Subsets as a Strong Adaptive Immune Response to Cytomegalovirus," <u>J. Infect. Dis.</u> 184:256-267, 2001.	
	KKKK.	Vitiello, Antonella, et al., "Comparison of Cytotoxic T Lymphocyte Responses Induced by Peptide or DNA Immunization: Implications on Immunogenicity and Immunodominance," <u>Eur. J. Immunol.</u> 27:671-678, 1997.	
	LLLL.	Walter, Elizabeth, et al., "Reconstitution of Cellular Immunity Against Cytomegalovirus in Recipients of Allogeneic Bone Marrow by Transfer of T-Cell Clones from the Donor," <u>The New England Journal of Medicine</u> 333(16):1038-1044, October 19, 1995.	
	MMMM.	Wentworth, Peggy, et al. "In Vitro induction of Primary, Antigen-Specific CTL from Human Peripheral Blood Mononuclear Cells Stimulated with Synthetic Peptides," <u>Molecular Immunology</u> 32(9):603-612, 1995.	
	NNNN.	Wei, Maria L., et al., "HLA-A2 Molecules in an Antigen-processing Mutant Cell Contain Signal Sequence-derived Peptides," <u>Nature</u> 356:443-446, April 12, 1992.	
	OOOO.	Wiedemann, Frank et al., "Histopathological Studies on the Local Reactions Induced by Complete Freund's Adjuvant (CFA), Bacterial Lipopolysaccharide (LPS), and Synthetic Lipopeptide (P3C) Conjugates," <u>J. Pathol.</u> 164:265-271, 1991.	
	PPPP.	Wills, Mark R., et al., "The Human Cytotoxic T-Lymphocyte (CTL) Response to Cytomegalovirus is Dominated by Structural Protein pp65: Frequency, Specificity, and T-Cell Receptor Usage of pp65-Specific CTL," <u>J. of Virol.</u> 70(11):7569-7579, Nov. 1996.	
▼	QQQQ.	Zaia, John A., et al., "Status of Cytomegalovirus Prevention and Treatment in 2000," <u>Hematology</u> , pp. 339-355, 2000.	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

INFORMATION ON DISCLOSURE STATEMENT BY APPLICANT <small>PATENT AND TRADEMARK OFFICE</small> <small>JUN 09 2004</small>		Complete if Known	
		Application Number	10/603,094
		Filing Date	June 25, 2003
		First Named Inventor	Don J. DIAMOND
		Group Art Unit	1648
Examiner Name	Laurie Scheiner Louise Humphrey		
Sheet	1	of	1
		Attorney Docket Number	
		1954-410	

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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		Group Art Unit	1645
		Examiner Name	To Be Assigned
Sheet	2	3	Attorney Docket Number 1954-410

NON PATENT LITERATURE DOCUMENTS

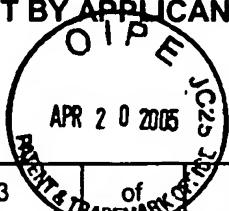
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
LH	1E	AHLERS et al., "High-Affinity T Helper Epitope Induces Complementary Helper and APC Polarization, Increased CTL, and Protection Against Viral Infection," <i>J. Clin. Invest.</i> , 108(11):1677-85, 2001.	
LH	1F	ALEXANDER et al., "A Decapeptide Polypeptide Primes for Multiple CD8+ INF-γ and Th Lymphocyte Responses: Evaluation of Multiepitope Polypeptides as a Mode for Vaccine Delivery," <i>J. Immunol.</i> , 168:6189-6198, 2002.	
LH	1G	CAFARO et al., "Vaccination with DNA Containing tat Coding Sequences and Unmethylated CpG Motifs Protects Cynomolgus Monkeys Upon Infection with Simian/Human Immunodeficiency Virus (SHIV89.6P)," <i>Vaccine</i> , 19:2862-2877, 2001.	
LH	1H	CHEE et al., "Analysis of the Protein-Coding Content of the Sequence of Human Cytomegalovirus Strain AD169," <i>Curr. Topics Microbiol. Immunol.</i> , 154:126-169, 1990.	
LH	1I	CHO et al., "Immunostimulatory DNA-based Vaccines Induce Cytotoxic Lymphocyte Activity by a T-Helper Cell-Independent Mechanism," <i>Nat. Biotechnol.</i> , 18:509-514, 2000.	
LH	1J	CHO et al., "IFN-αβ Promote Priming of Antigen-Specific CD8+ and CD4+ T Lymphocytes by Immunostimulatory DNA-Based Vaccines," <i>J. Immunol.</i> , 168:4907-4913, 2002.	
LH	1K	ELIAS et al., "Strong Cytosine-Guanosine-Independent Immunostimulation in Humans and other Primates by Synthetic Oligodeoxynucleotides with PyNTTTGT Motifs," <i>J. Immunol.</i> , 171:3697-3704, 2003.	
LH	1L	GÜRSEL et al., "Differential and Competitive Activation of Human Immune Cells by Distinct Classes of CpG Oligodeoxynucleotide," <i>J. Leukocyte Biol.</i> , 71:813-820, 2002.	
LH	1M	HO et al., "An Immunomodulatory GpG Oligonucleotide for the Treatment of Autoimmunity via the Innate and Adaptive Immune Systems," <i>J. Immunol.</i> , 171:4920-4926, 2003.	
LH	1N	KHATTAB et al., "Three T-Cell Epitopes Within the C-Terminal 265 Amino Acids of the Matrix Protein pp65 of Human Cytomegalovirus Recognized by Human Lymphocytes," <i>J. Med. Virol.</i> , 52:68-76, 1997.	
LH	1O	KLINMAN et al., "CpG DNA: Recognition by and Activation of Monocytes," <i>Microbes Infection</i> 4:897-901, 2002.	
LH	1P	KRUG et al., "Identification of CpG Oligonucleotide Sequences with High Induction of IFN-α/β in Plasmacytoid Dendritic Cells," <i>Eur. J. Immunol.</i> , 31:2154-2163, 2001.	

Examiner Signature /Louise Humphrey/ (09/13/2006) Date Considered

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LH	1Q	MESEDA et al., "Prime-Boost Immunization with DNA and Modified Vaccinia Virus Ankara Vectors Expressing Herpes Simplex Virus-2 Glycoprotein D Elicits Greater Specific Antibody and Cytokine Responses than DNA Vaccine Alone," J. Infect. Dis., 186:1065-73, 2002.	
	1R	NIJMAN et al., "Identification of Peptide Sequences That Potentially Trigger HLA-A2.1-Restricted Cytotoxic T Lymphocytes," Eur. J. Immunol., 23:1215-1219, 1993.	
	1S	OSEROFF et al., "Pools of Lipidated HTL-CTL Constructs Prime For Multiple HBV and HCV CTL Epitope Responses," Vaccine, 16(8):823-833, 1998.	
	1T	RUGER et al., "Primary Structure and Transcription of the Genes Coding for the Two Virion Phosphoproteins pp65 and pp71 of Human Cytomegalovirus," J. Virol., 61(2):446-453, 1987.	
	1U	SANO et al., "Oligodeoxynucleotides Without CpG Motifs Work as Adjuvant for the Induction of Th2 Differentiation in a Sequence-Independent Manner," J. Immunol., 170:2367-2373, 2003.	
	1V	SCHIRMBECK et al., "Antigenic Epitopes Fused to Cationic Peptide Bound to Oligonucleotides Facilitate Toll-Like Receptor 9-Dependent, but CD4+ T Cell Help-Independent, Priming of CD8+ T Cells," J. Immunol., 171:5198-5207, 2003.	
	1W	SHIRAI et al., "Helper-Cytotoxic T Lymphocyte (CTL) Determinant Linkage Required for Priming of Anti-HIV CD8+ CTL In Vivo with Peptide Vaccine Constructs," J. Immunol., 152:549-556, 1994.	
	1X	SOLACHE et al., "Identification of Three HLA-A*0201-Restricted Cytotoxic T Cell Epitopes in the Cytomegalovirus Protein pp65 That Are Conserved Between Eight Strains of the Virus," J. Immunol., 163:5512-5518, 1999.	
	1Y	SPAETE et al., "Human Cytomegalovirus Strain Towne Glycoprotein B is Processed by Proteolytic Cleavage," Virology 167:207-225, 1988.	
↓	1Z	VERTHELYI et al., "Human Peripheral Blood Cells Differentially Recognize and Respond to Two Distinct CpG Motifs," J. Immunol., 166:2372-2377, 2001.	
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